



Our Functional. What matters most.

Elmasystem Core





Elmasystem Core

Exactly the right solution for your cleaning task.

Precisely configured. Efficient. Future-proof.

Elmasystem Core stands for a clear approach: maximum cleaning performance with exactly the components your process requires. Nothing more than necessary, yet everything needed to achieve reliable and reproducible cleaning results.

Together with you, we analyze the specific requirements of your application and develop a cleaning solution precisely configured to your components,

contaminants, and production processes. Process reliability, ease of operation, and long-term cost-effectiveness are at the heart of every solution.

Thanks to its seamless integration into existing production and automation lines, Elmasystem Core fits perfectly into upstream and downstream processes. The result is powerful, reliable industrial parts cleaning – designed for today and ready for the future.



Developed for

Medical technology

Photonics

Energy and Drive technology

Precision components

Watches and jewellery



Cleans

Implants and instruments

Vacuum components, parts for laser and lithography technology

Components for fuel cells and drive systems, power electronics, electromechanical components

Technical ceramics and substrates, components for injection moulding tools, valves, nozzles, springs, cutting tools prior to PVD coating

Micromechanical components, cases, straps



Removes

Adhesive residues

Oil and grease

Abrasive and polishing pastes

Particles

Flux

Film-like impurities

Organic and inorganic impurities

Particulate impurities

Oxidation

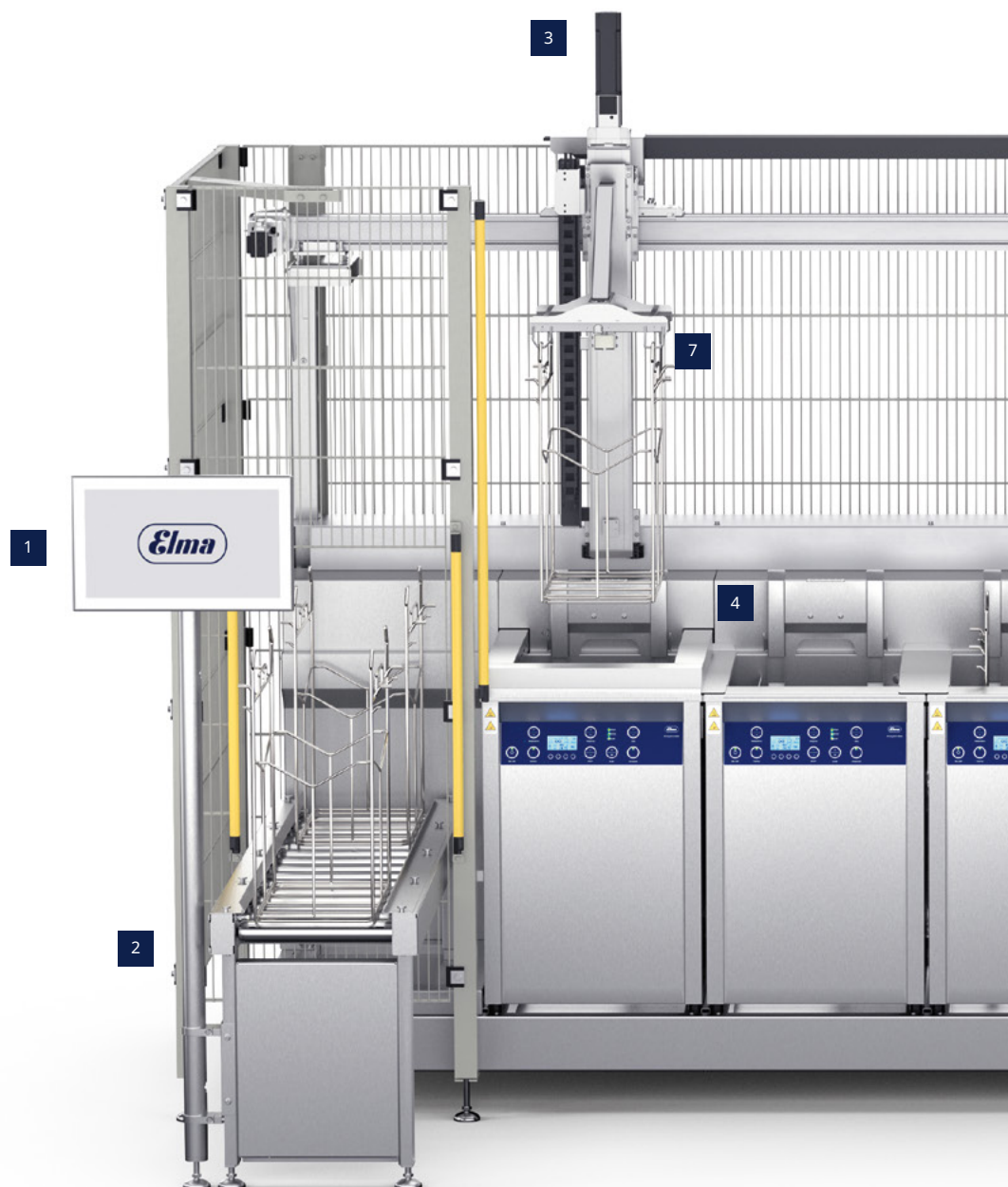


Two sizes. One principle. Nothing more. Nothing less.

Precisely designed for your process.

The Elmasystem Core is based on two standardized system sizes designed to cover a wide range of industrial cleaning applications. The combination of cleaning, rinsing, and drying modules enables solutions precisely configured to the specific requirements of each application.

Whether as a compact standalone system or integrated into a production line, the modular system concept adapts flexibly to component geometries, throughput requirements, and cleanliness specifications. A clearly structured system design ensures efficient processes and seamless integration into existing production environments.



Technical data

Elmasystem Core

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|---|---|---|---|
| 1 | User-friendly system visualisation and process monitoring. | 5 | Cleaning and maintenance area separated by operator protection. |
| 2 | Feed and discharge through automated conveyor systems. | 6 | Modular system design – flexible and adaptable. |
| 3 | Manual or automated transfer and movement of baskets. | 7 | Static baskets and rotating baskets can be combined. |
| 4 | Fill level monitoring, automated bath maintenance and dosing options. | 8 | Basket movement via oscillation device. |



VOLUME (l)

85
170



SIZE (mm)

240 / 420 / 340
430 / 500 / 340



MODE

Degas, Sonic
Sweep, Pulse
available



FREQUENCY (kHz)

25 / 45



MEDIUM

aqueous



TEMPERATURE

individually
adjustable



WEIGHT (kg)

up to 15
up to 35



5



8

6



Cost-effectiveness from the start.

Elmasystem Core offers a needs-based entry into industrial parts cleaning – from manual operation to fully automated system solutions.

The process design, precisely configured to the specific application, ensures efficient workflows, consistent cleaning results, and high system availability. Intelligent process monitoring supports the continuous control of relevant parameters and helps ensure consistent cleaning quality.

Optional systems for bath maintenance and media treatment extend service intervals, reduce operating costs, and support resource-efficient operation. The result is a cleaning solution that delivers long-term value – both technically and economically.

Robust, proven technology for reliable system operation.

Focused on the essentials – simple, functional, and straightforward.

Reduced complexity for clear processes and manageable investment costs.

Versatile applications. Tailored service.

More options for your success.

Elmasystem Core can be expanded with a wide range of optional components to meet specific process requirements. Dosing systems, filtration units, oil separators, and water treatment systems enable precise customization to individual process needs while increasing efficiency during operation.

Thinking sustainably.

Modern process monitoring and demand-based media maintenance reduce water, energy, and chemical consumption, extend media service life, and enable efficient use of resources.

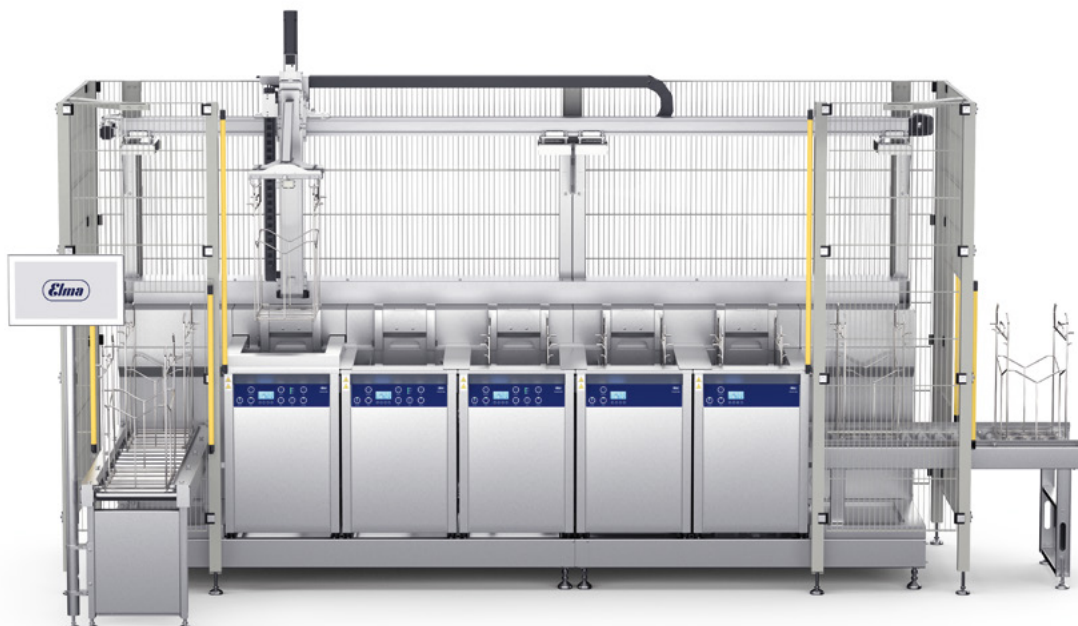
Smooth operation.

Before the system is put into operation, operators receive comprehensive training from Elma experts. Regular maintenance and servicing of the system contribute to reliable uptime. Elma supports you with customized spare parts packages, service and maintenance contracts. Should any malfunctions occur, our flexible service team is ready to assist you, from fault analysis to troubleshooting - either on-site or remotely.

Any questions?

Our service team will be happy to help!

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Digitalisation



Software Visualisation

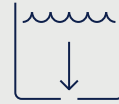
Intuitive and easy-to-use interface

Intelligent system control

Process and diagnostic features



Economic efficiency



Bath maintenance Process monitoring

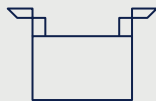
Dosing

Oil separation

Filtration



Process optimisation



Movement and Product handling

Baskets and product carriers

Oscillation, rotation, lift-out

Integration into upstream/downstream
processes, e.g. packaging, assembly



Sustainability



Environment and Resources

Time-controlled system operation
for efficient production planning

Water treatment and recirculation systems



Qualified experts with one goal – perfect cleaning results.

In our in-house process laboratory, qualified chemists develop highly effective products for various cleaning processes. These are produced at Elma and put to use in various industries. Our specialists are on hand to help you select the right product for your cleaning process and are always available to advise you on bath maintenance and the use of our cleaning agents.

Made in Germany

Individual cleaning tests.

The cleaning agents developed in our own application laboratory and manufactured in our own production facilities can master even difficult cleaning tasks for various applications. In our in-house process laboratory, we work together with our customers to develop process solutions for individual cleaning tasks, resulting in a coordinated system concept that includes the cleaning process and the associated chemistry.

Focus on quality.

An unwavering commitment to the highest quality is the foundation of the company's philosophy. The consistent further development of our core competencies and a constant focus on improvement and complete customer satisfaction underline Elma's exceptionally high quality standards. Furthermore, Elma is certified by DQS in accordance with DIN EN ISO 13485:2016.



Simple. Residue-free.

The really tough cases are our speciality.
This is where the quality of our products
really gets to shine.

Interested?
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